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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/651,539	08/29/20	000	Thomas G. Adams	19927-000510US	9913	
20350	7590 0	90 07/13/2005			EXAMINER	
	ND AND TOW	TRAN,	TRAN, HAI V			
TWO EMB EIGHTH F	ARCADERO CE LOOR	ART UNIT	PAPER NUMBER			
SAN FRAN	SAN FRANCISCO, CA 94111-3834			2611		
				DATE MAILED: 07/13/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/651,539	ADAMS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hai Tran	2611				
The MAILING DATE of this communication app						
Period for Reply		5,, 55ps2655				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period was period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 A	<u>oril 2005</u> .					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.				
Disposition of Claims						
 4) ☐ Claim(s) 1-35 is/are pending in the application. 4a) Of the above claim(s) 1-16,20,22,23 and 28 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 17,19,21,24-27 and 31 is/are rejected. 7) ☐ Claim(s) 18 and 32-35 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	3-30 is/are withdrawn from consid	eration.				
Application Papers						
9) The specification is objected to by the Examine	г.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	` '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list.	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 04/19/2005 have been fully considered but they are not persuasive.

Applicant argues, "As applicant has previously argued, one skilled in the art with the knowledge of Ryan would not be motivated to combine the teaching of Ryan and Lang et al. because Lang et al. relates to the processing of a single data stream that has been parsed into multiple PES packets. Lang et al. Is not in the same field of endeavor, even though it relates generally to computer memories."

In response, In response to applicant's argument that Lang et al. is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Lang et al., at least relates to computer memories, in which Lang et al. teaches how the function of optimizing data transfer between host memory and its associated buffers is performed, see Lang et al. (Col. 3, lines 37-45). Thus, the combination of Ryan in view of Lang et al. is proper.

As to applicant argument to newly amended limitations in independent claims 17 and 27, the Examiner respectfully disagrees with applicant because Ryan teaches that allocation for DMA channels is provided in local memory (flow control unit 318; Fig. 3)

and associating each DMA channel with a specific location in the memory of a host computer (Col. 6, lines 23-26).

What Ryan does not teach is "providing at least one data descriptor comprising a frame descriptor and at least one data descriptor comprising a channel context descriptor and the channel context descriptor associates a region in the host memory where data is to be stored."

Lang discloses at least one data descriptor comprising (Fig. 15) RPDs (frame descriptor) (Col. 17, lines 60-Col. 18, lines 25) and at least one data descriptor comprising (Fig. 24) TD (channel context descriptor) associates a region in the host memory where data is to be stored (Col. 22, lines 48-65+).

As such the Examiner maintains the rejection.

Allowable Subject Matter

Claims 18, and 32-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 17, 19, 21, 27, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ryan (US 5675654) in view of Lang et al. (US 6188699).

Claim 17, Ryan discloses a method of processing a transport stream comprising:

The steps of parsing the transport stream to derive multiple elementary streams including associated program identifiers (Col. 3, lines 52-54; Col. 4, lines 55-Col. 5, lines 62);

Using the associated program identifier to assign each stream a DMA channel (Col. 5, lines 35-40; Col. 6, lines 23-56);

Associating each DMA channel with a specific location in the memory of a host computer (Col. 6, lines 23-26); and

Performing DMA transfers of the multiple elementary streams to corresponding locations in the memory of the host computer using the DMA channels (Col. 5, lines 12-16; lines 55-Col. 8, lines 20).

Ryan further teaches that allocation for DMA channels, is provided in local memory (flow control unit 318; Fig. 3) and associating each DMA channel with a specific location in the memory of a host computer (Col. 6, lines 23-26).

Ryan does not clearly disclose "providing at least one data descriptor comprising a frame descriptor and at least one data descriptor comprising a channel context descriptor and the channel context descriptor associates a region in the host memory where data is to be stored."

Lang discloses at least one data descriptor comprising (Fig. 15) RPDs (frame descriptor) (Col. 17, lines 60-Col. 18, lines 25) and at least one data descriptor comprising (Fig. 24) TD (channel context descriptor) associates a region in the host memory where data is to be stored (Col. 22, lines 48-65+).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ryan with Lang, so to provide a method of optimizing data transfer between host memory and its associated buffers, see Lang et al. (Col. 3, lines 37-45).

Claim 19, Ryan further discloses wherein the multiple elementary streams are transferred between a transport controller 320 and the memory of the host computer (Fig. 3; Col. 6, lines 57-58);

Claim 21, "wherein the DMA transfer is an automatic programmable transport interface operation wherein data is not buffered in a local memory prior to the transfer to the memory of the host computer" is inherently met by Ryan because the DMA transfer only occurs when the received data is buffered (Col. 6, lines 63-Col. 7, lines 40).

Claim 27, apparatus claim is analyzed with respect to method claim 17.

Claim 31, apparatus claim is analyzed with respect to method claim 21.

 Claims 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ryan (US 5675654) in view of Lang et al. (US 6188699), and further in view of Fuji et al. (US 6477179).

Claims 24-26, Ryan in view of Lang do not clearly disclose wherein the step of transferring the multiple elementary streams to an end user system comprises transferring the multiple elementary streams through an audio-visual interface; however, Ryan discloses an end user system is an audio-visual system that receives multiple elementary streams through a channel interface 112 (audio-visual interface)(Fig. 1; Col. 1, lines 5-13).

Fujii (US 6477179) discloses wherein the end user system comprises a networked computer and the step of transferring the multiple elementary streams (digital data stream) to an end user system through a network interface (LAN Interface of the end-user system; Fig. 1-3 and 6; Col. 3, lines 55-Col. 4, lines 10 and Col. 7, lines 19-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ryan and Lang by integrating a network interface connected to a networked computer, as taught by Fujii (US 6477179), so the receiving device outputs digital data received through, for example, a digital satellite broadcast network to a network computer (Col. 1, lines 6-10).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Tran whose telephone number is (571) 272-7305. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher C. Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HT:ht 07/07/2005

HAITRAN PRIMARY EXAMINER